Specification for General purpose AC Servo High Twisting Long Life Encoder cable

Type SC-J3J2CBL□M-■-N

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision

A 13 Nov.,2017

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Send to

Date

Date

Dwg

22 Mar.,2016

Order

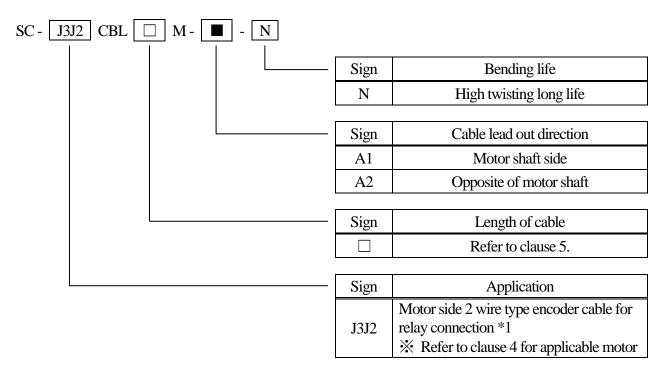
X903703D50052-E80A

1. SCOPE

This specification covers the requirements for the General purpose AC Servo High Twisting Long Life Encoder cable.

- · SC-J3J2CBL□M-■-N
- * This cable doesn't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



X This cable does not work for 4 wire type connection

*1 Please use it with amplifier side encoder cable.

Refer to clause 6 for confirming the combination and cable length.

3. APPLICABLE STANDARDS

UL758 AWM STYLE 20276 (wire part)

4. APPLICABLE SERVO MOTOR

HG-KR, HG-MR series motor HF-KN, HF-KP, HF-MP series motor

5. LENGTH OF CABLE

1 to 3m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

	Total apple langth		
Amplifier side	Motor si	Total cable length	
SC-EKCBL□M-L	SC-J3J2CBL□M-■-N	3m or less	30m or less
SC-EKCBL□M-H	5C-J5J2CDL□IVI-■-IN		
SC-EKCBL□M-S	SC-J3J2CBL□M-■-N	3m or less	20m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3J2CBL□M-■-N ×××××××

- % \square is a figure from 1 to 3.
- **※** is cable lead out direction from A1,A2.

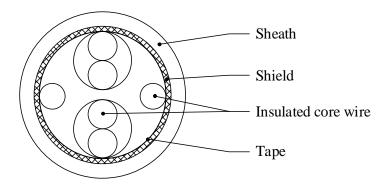
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
Structure		_	AWG24×2C	AWG24×2P	
Conductor	Conductor size		_	AWG24	
Conductor	Outer diameter		mm	Approx. 0.66	
Insulation	Material		_	ETFE	
Insulation	Outer diameter		mm	Approx. 1.02	
Twisted pair	Number of pairs		_	_	2P
	Number of insulated core wire		_	2C	2C
Shield	Material		_	Copper alloy foil braid	
Chaoth	Material		_	High elastic PVC	
Sheath	Color		_	Black	
Overall diameter		mm	Approx. 7.0		
	Insulation resistance		MΩ·km	Over 500	
	Withstand voltage		V for1minute	AC500	
Operating temperature range		$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)		
Minimum Bend Radius		mm	6 times the overall diameter		
Twisting performance		_	Over 2 million times *1 (twisting angle: $\pm 180^{\circ}$)		
Flame Retardant		_	UL1581 VW-1		
Connector	Servo amplifier side	Туре	Tyco electronics Japan 1-172169-9 (Plug) 316454-1 (Cable crump)		
		IP rating	IP20*2		
	Servo motor side	Туре	Tyco electronics Japan 2174053-1 (Micro motor connector)		
		IP rating	IP65*2		

^{*1} This is the test result, not a guaranteed value. (The performance would change depending on customer's environment)

^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10.OUTLINE DRAWING

Servo amplifier side

Servo motor side

L[m]

Type name label

11. SYSTEM CONFIGURATION DIAGRAM

